

**SOUNDSYNC..**



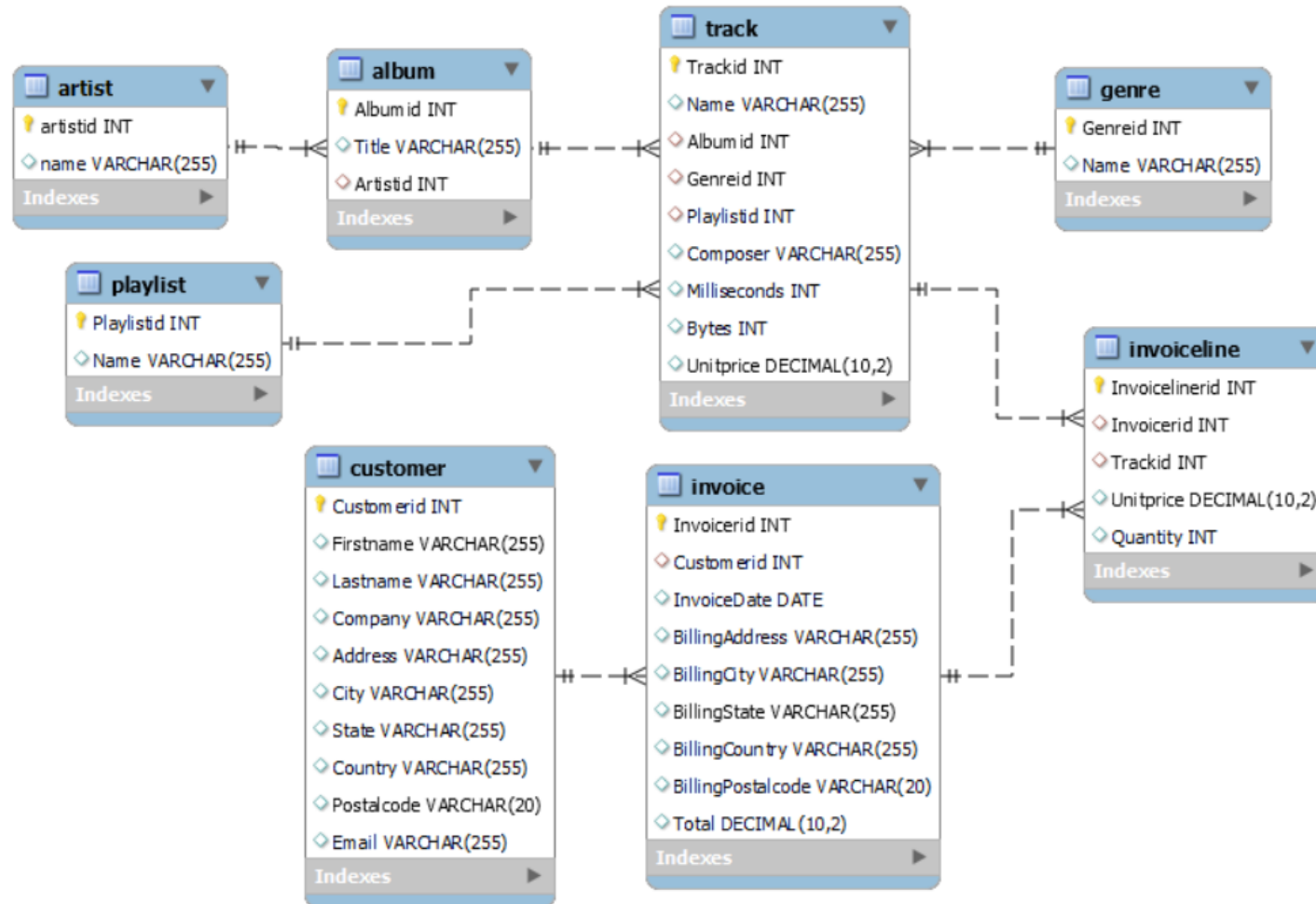


# ABSTRACT

The "SOUNDSYNC" database is designed to manage a music store's operations. It includes information about artists, albums, genres, playlists, customers, and invoices. Tracks are associated with albums, genres, and playlists, allowing for diverse categorization and organization. Invoices track customer purchases, with invoice lines detailing the individual tracks purchased along with their quantities and prices.

This database could be further expanded with features like user authentication, more detailed customer profiles, ratings, reviews, and perhaps integration with an online music streaming service. Additionally, indexes and constraints could be added for optimization and data integrity.

# ER-DIAGRAM



# Structure of Table

## Artist Table:

This table shows the Artist details ,  
Artistid and name .

Syntax:desc Artist;

29 • desc Artist;

Result Grid | Filter Rows: | Export: |

	Field	Type	Null	Key	Default	Extra
▶	artistid	int	NO	PRI	NULL	
	name	varchar(255)	YES		NULL	

# Structure of Table

## Album Table:

This table shows the Album details ,  
Albumid , Title and Artistid .

Syntax:desc Album;

60 • desc Album;

Result Grid | Filter Rows: | Export: |

	Field	Type	Null	Key	Default	Extra
▶	Albumid	int	NO	PRI	NULL	
	Title	varchar(255)	YES		NULL	
	Artistid	int	YES	MUL	NULL	



## Structure of Table

### Genre Table:

This table shows the Genre details ,  
Genreid and name.

Syntax:desc Genre;

88 • desc Genre;

Result Grid | Filter Rows: | Export: | Wra

	Field	Type	Null	Key	Default	Extra
▶	Genreid	int	NO	PRI	NULL	
	Name	varchar(255)	YES		NULL	

## Structure of Table

### Playlist Table:

This table shows the Playlist details ,  
Plylistid and Name.

Syntax:desc Playlist;

119 • desc Playlist;

Result Grid | Filter Rows: | Export: | Wra

	Field	Type	Null	Key	Default	Extra
▶	Playlistid	int	NO	PRI	NULL	
	Name	varchar(255)	YES		NULL	

# Structure of Table

## Customer Table:

This table shows the Customer details ,

Customerid, Firstname, Lastname,  
Company, Address, City, State,  
Country, Postalcode and Email .

Syntax:desc Customer;

157 • desc customer;

Field	Type	Null	Key	Default	Extra
Customerid	int	NO	PRI	NULL	
Firstname	varchar(255)	YES		NULL	
Lastname	varchar(255)	YES		NULL	
Company	varchar(255)	YES		NULL	
Address	varchar(255)	YES		NULL	
City	varchar(255)	YES		NULL	
State	varchar(255)	YES		NULL	
Country	varchar(255)	YES		NULL	
Postalcode	varchar(20)	YES		NULL	
Email	varchar(255)	YES		NULL	

# Structure of Table

## Invoice Table:

This table shows the Invoice details ,

Invoicerid , Customerid,InvoiceDate,  
BillingAddress, BillingCity, BillingState,  
BillingCountry, BillingPostalcode, Total ,

Syntax:desc Invoice;

194 • desc invoice;

Field	Type	Null	Key	Default	Extra
Invoicerid	int	NO	PRI	NULL	
Customerid	int	YES	MUL	NULL	
InvoiceDate	date	YES		NULL	
BillingAddress	varchar(255)	YES		NULL	
BillingCity	varchar(255)	YES		NULL	
BillingState	varchar(255)	YES		NULL	
BillingCountry	varchar(255)	YES		NULL	
BillingPostalcode	varchar(20)	YES		NULL	
Total	decimal(10,2)	YES		NULL	

# Structure of Table

## Track Table:

This table shows the Track details ,  
Trackid , Name , Albumid , Genreid ,  
Playlistid, Composer, Milliseconds ,  
Bytes and Unitprice .

Syntax:desc Track;

233 • desc Track;

Result Grid | Filter Rows: | Export: | Wrap

	Field	Type	Null	Key	Default	Extra
▶	Trackid	int	NO	PRI	NULL	
	Name	varchar(255)	YES		NULL	
	Albumid	int	YES	MUL	NULL	
	Genreid	int	YES	MUL	NULL	
	Playlistid	int	YES	MUL	NULL	
	Composer	varchar(255)	YES		NULL	
	Milliseconds	int	YES		NULL	
	Bytes	int	YES		NULL	
	Unitprice	decimal(10,2)	YES		NULL	

# Structure of Table

## InvoiceLine Table:

This table shows the InvoiceLine details,  
InvoiceLinerid , Invoicerid, Trackid ,  
Unitprice and Quantity .

Syntax :desc InvoiceLine;

267 • desc invoiceLine;

Result Grid | Filter Rows: | Export: | Wrap Ce

	Field	Type	Null	Key	Default	Extra
▶	InvoiceLinerid	int	NO	PRI	NULL	
	Invoicerid	int	YES	MUL	NULL	
	Trackid	int	YES	MUL	NULL	
	Unitprice	decimal(10,2)	YES		NULL	
	Quantity	int	YES		NULL	

# Contents of Table

## Artist Table

30 • `select * from Artist;`

Result Grid Filter Rows: Edit:

	artistid	name
▶	1	John Smith
	2	Emily Johnson
	3	Michael Brown
	4	Sarah Davis
	5	Chris Wilson
	6	Jessica Martinez
	7	David Anderson
	8	Jennifer Taylor
	9	Matthew Clark
	10	Amanda Rodriguez
	11	James Thomas
	12	Elizabeth Garcia
	13	Daniel Hernandez
	14	Lisa Lopez
	15	Kevin Martinez
	16	Mary Wilson
	17	Brian Gonzalez
	18	Patricia Lee
	19	Mark Robinson
	20	Laura Moore
	NULL	NULL

## Album Table

60 • `select * from Album;`

Result Grid Filter Rows:

	Albumid	Title	Artistid
▶	1	Greatest Hits	1
	2	Love Songs	2
	3	Best of Rock	3
	4	Acoustic Sessions	4
	5	90s Classics	5
	6	Jazz Nights	6
	7	Pop Anthems	7
	8	Country Road	8
	9	Electronic Beats	9
	10	R&B Grooves	10
	11	Classical Master...	11
	12	Indie Vibes	12
	13	Hip Hop Hits	13
	14	Reggae Fever	14
	15	Soulful Sounds	15
	16	Latin Flavor	16
	17	Folk Favorites	17
	18	Disco Fever	18
	19	Alternative Beats	19
	20	Rock Ballads	20
	NULL	NULL	NULL






# Contents of Table

## Genre Table



91 • `select * from genre;`

Result Grid   Filter Rows:

	Genreid	Name
▶	11	Rock
	12	Pop
	13	Jazz
	14	Blues
	15	R&B
	16	Hip Hop
	17	Country
	18	Electronic
	19	Classical
	20	Reggae
	21	Folk
	22	Indie
	23	Metal
	24	Punk
	25	Soul
	26	Latin
	27	Funk
	28	Disco
	29	Alternative
	30	World
•	NULL	NULL

## Playlist Table

120 • `select * from Playlist;`

Result Grid   Filter Rows:

	Playlistid	Name
▶	1	Morning Vibes
	2	Workout Mix
	3	Chillout Lounge
	4	Road Trip Jams
	5	Study Beats
	6	Party Anthems
	7	Throwback Hits
	8	Relaxation Station
	9	Country Roads
	10	Late Night Jazz
	11	90s Classics
	12	Indie Hits
	13	Hip Hop Hype
	14	Reggae Vibes
	15	Soulful Sounds
	16	Latin Grooves
	17	Folk Favorites
	18	Electronic Beats
	19	Rock On
	20	Classical Serenade
•	NULL	NULL



# Contents of Table

## Customer Table

158 • `select*from customer;`

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: ☐

	Customerid	Firstname	Lastname	Company	Address	City	State	Country	Postalcode	Email
▶	101	Tanay	Dt	ABC Corp	123 Main St	New York	NY	USA	10001	Tan.d@gmail.com
	102	Shredh	Sm	XYZ Inc	456 Elm St	Los Angeles	CA	USA	90001	ss.sm@gamil.com
	103	Methil	serii	We Company	789 Oak St	Chicago	IL	USA	60001	michael.johnson@gamil.com
	104	Sara	Wili	Acme Corporation	101 Pine St	Houston	TX	USA	77001	sara.wiliams@gamil.com
	105	Chre	Brow	Tech Solutions	222 Maple St	San Francisco	CA	USA	94101	chre.brow@gamil.com
	106	Jesa	Davis	Smith & Co	333 Cedar St	Miami	FL	USA	33101	jesa.davis@gamil.com
	107	Dav	Wison	Johnson Enterprises	444 Birch St	Seattle	WA	USA	98101	dav.wison@gamil.com
	108	Jenni	Mainez	Taylor Group	555 Walnut St	Boston	MA	USA	02101	jenni.marinez@gamil.com
	109	Mather	terson	Anderson LLC	666 Cherry St	Dallas	TX	USA	75201	mathew.terson@gamil.com
	110	Ananda	Taylor	Taylor & Sons	777 Cedar St	Phoenix	AZ	USA	85001	ananda.taylor@gamil.com
	111	Jay	Thomas	Thomas Enterprises	888 Oak St	Portland	OR	USA	97201	jay.thomas@gamil.com
	112	Elith	Ghracia	Ghracia Corp	999 Elm St	Philadelphia	PA	USA	19101	elith.ghrcia@gamil.com
	113	Darsh	Herz	Herz Industries	1010 Maple St	San Diego	CA	USA	92101	darsh.herz@gamil.com
	114	Lisa	Lop	Lopez Enterprises	1111 Pine St	Las Vegas	NV	USA	89101	lisa.lop@gamil.com
	115	Krian	meh	Clark & Co	1212 Oak St	Atlanta	GA	USA	30301	krina.clark@gamil.com
	116	Mary	Rodrz	Rodrz Group	1313 Cedar St	Austin	TX	USA	78701	mary.rodz@gamil.com
	117	Bhahesh	Gonza	Gonza Ltd	1414 Maple St	Denver	CO	USA	80201	bhav.gonzalez@gamil.com
	118	Prachi	Lee	Lee & Partners	1515 Pine St	Minneapolis	MN	USA	55401	prachi.lee@gamil.com
	119	Maan	Rison	Rison Industries	1616 Elm St	Detroit	MI	USA	48201	maan.rison@gamil.com
	120	Lila	More	More Corporation	1717 Oak St	San Antonio	TX	USA	78201	lila.more@gamil.com
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL





# Contents of Table

## Invoice Table

195 • `select * from invoice;`

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: ☐

	Invoicerid	Customerid	InvoiceDate	BillingAddress	BillingCity	BillingState	BillingCountry	BillingPostalcode	Total
▶	1	101	2023-01-05	123 Main St	New York	NY	USA	10001	50.00
	2	102	2023-02-10	456 Elm St	Los Angeles	CA	USA	90001	75.00
	3	103	2023-03-15	789 Oak St	Chicago	IL	USA	60001	100.00
	4	104	2023-04-20	101 Pine St	Houston	TX	USA	77001	125.00
	5	105	2023-05-25	222 Maple St	San Francisco	CA	USA	94101	150.00
	6	106	2023-06-30	333 Cedar St	Miami	FL	USA	33101	175.00
	7	107	2023-07-05	444 Birch St	Seattle	WA	USA	98101	200.00
	8	108	2023-08-10	555 Walnut St	Boston	MA	USA	02101	225.00
	9	109	2023-09-15	666 Cherry St	Dallas	TX	USA	75201	250.00
	10	110	2023-10-20	777 Cedar St	Phoenix	AZ	USA	85001	275.00
	11	111	2023-11-25	888 Oak St	Portland	OR	USA	97201	300.00
	12	112	2023-12-30	999 Elm St	Philadelphia	PA	USA	19101	325.00
	13	113	2024-01-05	1010 Maple St	San Diego	CA	USA	92101	350.00
	14	114	2024-02-10	1111 Pine St	Las Vegas	NV	USA	89101	375.00
	15	115	2024-03-15	1212 Oak St	Atlanta	GA	USA	30301	400.00
	16	116	2024-04-20	1313 Cedar St	Austin	TX	USA	78701	425.00
	17	117	2024-05-25	1414 Maple St	Denver	CO	USA	80201	450.00
	18	118	2024-06-30	1515 Pine St	Minneapolis	MN	USA	55401	475.00
	19	119	2024-07-05	1616 Elm St	Detroit	MI	USA	48201	500.00
	20	120	2024-08-10	1717 Oak St	San Antonio	TX	USA	78201	525.00
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL



# Contents of Table

## Track Table

234 • `select * from Track;`

Trackid	Name	Albumid	Genreid	Playlistid	Composer	Milliseconds	Bytes	Unitprice
1001	Song 1	1	11	1	Composer A	300000	5000000	0.99
1002	Song 2	1	12	2	Composer B	250000	4500000	0.99
1003	Song 3	2	13	3	Composer C	320000	5200000	0.99
1004	Song 4	2	14	4	Composer D	280000	4800000	0.99
1005	Song 5	3	15	5	Composer E	270000	4700000	0.99
1006	Song 6	3	16	6	Composer F	310000	5100000	0.99
1007	Song 7	4	17	7	Composer G	290000	4900000	0.99
1008	Song 8	4	18	8	Composer H	330000	5300000	0.99
1009	Song 9	5	19	9	Composer I	260000	4600000	0.99
1010	Song 10	5	20	10	Composer J	340000	5400000	0.99
1011	Song 11	6	21	11	Composer K	350000	5500000	0.99
1012	Song 12	6	22	12	Composer L	240000	4400000	0.99
1013	Song 13	7	23	13	Composer M	380000	5800000	0.99
1014	Song 14	7	24	14	Composer N	220000	4200000	0.99
1015	Song 15	8	25	15	Composer O	360000	5600000	0.99
1016	Song 16	8	26	16	Composer P	230000	4300000	0.99
1017	Song 17	9	27	17	Composer Q	370000	5700000	0.99
1018	Song 18	9	28	18	Composer R	210000	4100000	0.99
1019	Song 19	10	29	19	Composer S	380000	5800000	0.99
1020	Song 20	10	30	20	Composer T	200000	4000000	0.99
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

## InvoiceLine Table

268 • `select * from invoiceLine;`

InvoiceLineid	Invoiceid	Trackid	Unitprice	Quantity
2011	1	1001	0.99	1
2012	2	1002	0.99	3
2013	3	1003	0.99	4
2014	4	1004	0.99	5
2015	5	1005	0.99	6
2016	6	1006	0.99	3
2017	7	1007	0.99	8
2018	8	1008	0.99	6
2019	9	1009	0.99	10
2020	10	1010	0.99	5
2021	11	1011	0.99	2
2022	12	1012	0.99	3
2023	13	1013	0.99	1
2024	14	1014	0.99	1
2025	15	1015	0.99	1
2026	16	1016	0.99	1
2027	17	1017	0.99	1
2028	18	1018	0.99	1
2029	19	1019	0.99	1
2030	20	1020	0.99	1
NULL	NULL	NULL	NULL	NULL





**SUB-QUERY..**





## SUB-QUERY..

Which playlist has the most tracks?

Syntax:

```
SELECT p.Name FROM Playlist p
WHERE p.Playlistid = ( SELECT
t.Playlistid FROM Track t
GROUP BY t.Playlistid
ORDER BY COUNT(*) DESC
LIMIT 1);
```

```
409  -- Which playlist has the most tracks?
410  •  SELECT p.Name
411      FROM Playlist p
412  ○  WHERE p.Playlistid = (
413          SELECT t.Playlistid
414          FROM Track t
415          GROUP BY t.Playlistid
416          ORDER BY COUNT(*) DESC
417          LIMIT 1
418  );
```

Result Grid |  Filter Rows:  Export: 

	Name
▶	Morning Vibes

## SUB-QUERY..

1) Which albums have not been purchased yet?

Syntax:

```
SELECT Title FROM Album WHERE  
Albumid NOT IN ( SELECT  
DISTINCT Albumid FROM Track)  
limit 5;
```

```
276  -- 1) Which albums have not been purchased yet?  
277 •  SELECT Title  
278      FROM Album  
279      WHERE Albumid NOT IN (  
280          SELECT DISTINCT Albumid  
281          FROM Track  
282      )limit 5;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch

	Title
▶	Classical Masterpieces
	Indie Vibes
	Hip Hop Hits
	Reggae Fever
	Soulful Sounds

## SUB-QUERY..

2) the total number of invoices made by customers from California.

Syntax:

```
SELECT COUNT(*) FROM Invoice
WHERE Customerid IN (SELECT
Customerid FROM Customer WHERE
State = 'CA');
```

```
290  -- 2) the total number of invoices made by customers from California.
291  • SELECT COUNT(*)
292  FROM Invoice
293  WHERE Customerid IN (SELECT Customerid
294                        FROM Customer
295                        WHERE State = 'CA');
```

Result Grid

	COUNT(*)
▶	3

Filter Rows:  Export: Wrap Cell Content:



## SUB-QUERY..




3) How many invoices have been issued per year?

Syntax:

```
SELECT YEAR(InvoiceDate) AS Year,  
COUNT(*) AS Invoice_Count  
FROM Invoice GROUP BY Year;
```

```
284 -- 3) How many invoices have been issued per year?  
285 • SELECT YEAR(InvoiceDate) AS Year, COUNT(*) AS Invoice_Count  
286 FROM Invoice  
287 GROUP BY Year;  
288
```

---

Result Grid |  Filter Rows:  | Export:  Wrap Cell Content: 

	Year	Invoice_Count
▶	2023	12
	2024	8

## SUB-QUERY..

4)What are the top 3 genres based on the number of tracks sold?

Syntax:

```
SELECT Name FROM Genre WHERE Genreid  
IN ( SELECT Genreid  FROM Track  WHERE  
Trackid IN(SELECT Trackid FROM Invoiceline)  
GROUP BY Genreid  ORDER BY  
COUNT(Trackid) DESC)limit 3 ;
```

```
297 -- 4)What are the top 3 genres based on the number of tracks sold?  
298 • SELECT Name  
299 FROM Genre  
300 WHERE Genreid IN (  
301     SELECT Genreid  
302     FROM Track  
303     WHERE Trackid IN (  
304         SELECT Trackid  
305         FROM Invoiceline  
306     )  
307     GROUP BY Genreid  
308     ORDER BY COUNT(Trackid) DESC  
309 )  
310 limit 3 ;
```

Result Grid

	Name
▶	Rock
	Pop
	Jazz

## SUB-QUERY..

5) Get the total revenue from the invoices that include tracks composed by 'Composer M'.

Syntax:

```
SELECT SUM(Total) FROM Invoice WHERE Invoicerid  
IN (SELECT Invoicerid FROM Invoiceline WHERE  
Trackid IN (SELECT Trackid FROM Track WHERE  
Composer = 'Composer M'));
```

```
312  -- 5) Get the total revenue from the invoices that include tracks composed by 'Composer M'.  
313  • SELECT SUM(Total)  
314  FROM Invoice  
315  WHERE Invoicerid IN (SELECT Invoicerid  
316                        FROM Invoiceline  
317                        WHERE Trackid IN (SELECT Trackid  
318                                         FROM Track  
319                                         WHERE Composer = 'Composer M'));
```

Result Grid

SUM(Total)
350.00

## SUB-QUERY..

6) Find the total number of invoices, total sales amount, and average sales amount per invoice.

Syntax:

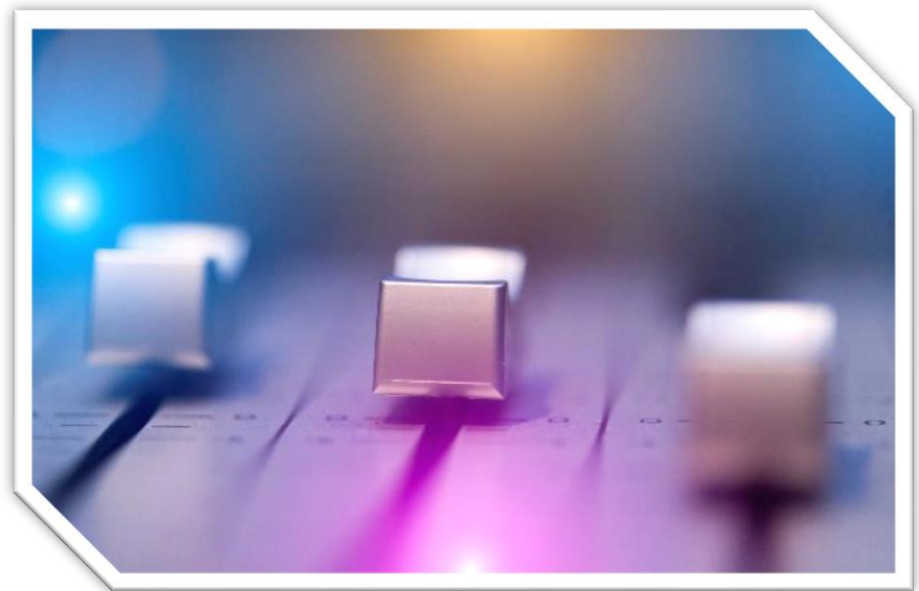
```
SELECT (SELECT COUNT(*) FROM Invoice) AS  
TotalInvoices, (SELECT SUM(Total) FROM Invoice)  
AS TotalSalesAmount, (SELECT AVG(Total) FROM  
Invoice) AS AvgSalesAmount;
```

```
333  -- 6)Find the total number of invoices, total sales amount, and average sales amount per invoice.  
334  •  SELECT  
335      (SELECT COUNT(*) FROM Invoice) AS TotalInvoices,  
336      (SELECT SUM(Total) FROM Invoice) AS TotalSalesAmount,  
337      (SELECT AVG(Total) FROM Invoice) AS AvgSalesAmount;
```

Result Grid			
	TotalInvoices	TotalSalesAmount	AvgSalesAmount
▶	20	5750.00	287.500000



# JOINS..



## JOINS..

1) List all tracks along with their genres and the number of milliseconds it takes to play each track

Syntax:

```
SELECT t.Name AS TrackName, g.Name AS  
Genre, t.Milliseconds FROM Track t  
INNER JOIN Genre g ON t.Genreid=g.Genreid;
```

```
345  -- 1) List all tracks along with their genres and the number  
346  -- of milliseconds it takes to play each track:  
347  • SELECT t.Name AS TrackName, g.Name AS Genre, t.Milliseconds  
348  FROM Track t  
349  INNER JOIN Genre g ON t.Genreid = g.Genreid;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [⌕](#)

	TrackName	Genre	Milliseconds
▶	Song 1	Rock	300000
	Song 2	Pop	250000
	Song 3	Jazz	320000
	Song 4	Blues	280000
	Song 5	R&B	270000
	Song 6	Hip Hop	310000
	Song 7	Country	290000
	Song 8	Electronic	330000
	Song 9	Classical	260000
	Song 10	Reggae	340000
	Song 11	Folk	350000
	Song 12	Indie	240000
	Song 13	Metal	380000
	Song 14	Punk	220000
	Song 15	Soul	360000
	Song 16	Latin	230000
	Song 17	Funk	370000
	Song 18	Disco	210000
	Song 19	Alternative	380000
	Song 20	World	200000

## JOINS..

2)List all playlists along with the number of tracks in each playlist

Syntax:

```
SELECT p.Name AS PlaylistName,  
COUNT(t.Trackid) AS TrackCount FROM Playlist p  
LEFT JOIN Track t ON p.Playlistid = t.Playlistid  
GROUP BY p.Playlistid limit 5;
```

```
351 -- 2)List all playlists along with the number of tracks in each playlist:  
352 • SELECT p.Name AS PlaylistName, COUNT(t.Trackid) AS TrackCount  
353 FROM Playlist p  
354 LEFT JOIN Track t ON p.Playlistid = t.Playlistid  
355 GROUP BY p.Playlistid  
356 limit 5;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
PlaylistName	TrackCount			
▶ Morning Vibes	1			
Workout Mix	1			
Chillout Lounge	1			
Road Trip Jams	1			
Study Beats	1			

## JOINS..

3)Combine all playlists with all tracks to see all possible combinations.

Syntax:

```
SELECT * FROM Playlist CROSS JOIN Track limit 10;
```

```
383  -- 3)Combine all playlists with all tracks to see all possible combinations.
384 •  SELECT *
385     FROM Playlist
386     CROSS JOIN Track limit 10;
387
```

	Playlistid	Name	Trackid	Name	Albumid	Genreid	Playlistid	Composer	Milliseconds	Bytes	Unitprice
▶	20	Classical Serenade	1001	Song 1	1	11	1	Composer A	300000	5000000	0.99
	19	Rock On	1001	Song 1	1	11	1	Composer A	300000	5000000	0.99
	18	Electronic Beats	1001	Song 1	1	11	1	Composer A	300000	5000000	0.99
	17	Folk Favorites	1001	Song 1	1	11	1	Composer A	300000	5000000	0.99
	16	Latin Grooves	1001	Song 1	1	11	1	Composer A	300000	5000000	0.99
	15	Soulful Sounds	1001	Song 1	1	11	1	Composer A	300000	5000000	0.99
	14	Reggae Vibes	1001	Song 1	1	11	1	Composer A	300000	5000000	0.99
	13	Hip Hop Hype	1001	Song 1	1	11	1	Composer A	300000	5000000	0.99
	12	Indie Hits	1001	Song 1	1	11	1	Composer A	300000	5000000	0.99
	11	90s Classics	1001	Song 1	1	11	1	Composer A	300000	5000000	0.99



## JOINS..

4) Show all customers and their invoices, including those who haven't made any purchases yet.

Syntax :

```
SELECT *FROM Customer RIGHT JOIN Invoice
ON Customer.Customerid =
Invoice.Customerid limit 10;
```

```
363 -- 4)Show all customers and their invoices, including those who haven't made any purchases yet.
364 • SELECT *
365 FROM Customer
366 RIGHT JOIN Invoice ON Customer.Customerid = Invoice.Customerid limit 10;
```

Result Grid												
Filter Rows: <input type="text"/> Export: <input type="button"/> Wrap Cell Content: <input type="checkbox"/> Fetch rows: <input type="button"/>												
	Customerid	Firstname	Lastname	Company	Address	City	State	Country	Postalcode	Email	Invoiceid	Customerid
▶	101	Tanay	Dt	ABC Corp	123 Main St	New York	NY	USA	10001	Tan.d@gmail.com	1	101
	102	Shredh	Sm	XYZ Inc	456 Elm St	Los Angeles	CA	USA	90001	ss.sm@gmail.com	2	102
	103	Methil	seril	We Company	789 Oak St	Chicago	IL	USA	60001	michael.johnson@gmail.com	3	103
	104	Sara	Wili	Acme Corporation	101 Pine St	Houston	TX	USA	77001	sara.williams@gmail.com	4	104
	105	Chre	Brow	Tech Solutions	222 Maple St	San Francisco	CA	USA	94101	chre.brow@gmail.com	5	105
	106	Jesa	Davis	Smith & Co	333 Cedar St	Miami	FL	USA	33101	jesa.davis@gmail.com	6	106
	107	Dav	Wison	Johnson Enterprises	444 Birch St	Seattle	WA	USA	98101	dav.wison@gmail.com	7	107
	108	Jenni	Mainez	Taylor Group	555 Walnut St	Boston	MA	USA	02101	jenni.marinez@gmail.com	8	108
	109	Mather	terson	Anderson LLC	666 Cherry St	Dallas	TX	USA	75201	matthew.terson@gmail.com	9	109
	110	Ananda	Taylor	Taylor & Sons	777 Cedar St	Phoenix	AZ	USA	85001	ananda.taylor@gmail.com	10	110

InvoiceDate	BillingAddress	BillingCity	BillingState	BillingCountry	BillingPostalcode	Total
2023-01-05	123 Main St	New York	NY	USA	10001	50.00
2023-02-10	456 Elm St	Los Angeles	CA	USA	90001	75.00
2023-03-15	789 Oak St	Chicago	IL	USA	60001	100.00
2023-04-20	101 Pine St	Houston	TX	USA	77001	125.00
2023-05-25	222 Maple St	San Francisco	CA	USA	94101	150.00
2023-06-30	333 Cedar St	Miami	FL	USA	33101	175.00
2023-07-05	444 Birch St	Seattle	WA	USA	98101	200.00
2023-08-10	555 Walnut St	Boston	MA	USA	02101	225.00
2023-09-15	666 Cherry St	Dallas	TX	USA	75201	250.00
2023-10-20	777 Cedar St	Phoenix	AZ	USA	85001	275.00

## MULTIPLE JOINS..

Retrieve the names of customers who have purchased tracks composed by 'Composer A'.

Syntax :

```
SELECT c.Firstname, c.Lastname FROM Customer c
JOIN Invoice i ON c.Customerid = i.Customerid
JOIN Invoiceline il ON i.Invoicerid = il.Invoicerid
JOIN Track t ON il.Trackid = t.Trackid WHERE
t.Composer = 'Composer A';
```

```
399 -- Retrieve the names of customers who have purchased tracks composed by 'Composer A'.
400 • SELECT c.Firstname, c.Lastname
401 FROM Customer c
402 JOIN Invoice i ON c.Customerid = i.Customerid
403 JOIN Invoiceline il ON i.Invoicerid = il.Invoicerid
404 JOIN Track t ON il.Trackid = t.Trackid
405 WHERE t.Composer = 'Composer A';
406
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Firstname	Lastname		
Tanay	Dt		



# THANK YOU..!

Sumedh Motghare..

IT Vedant

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